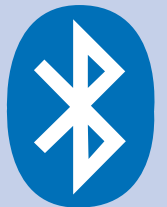


Selection Guide for CNC Rotary Tables ...



Bluetooth®

pl

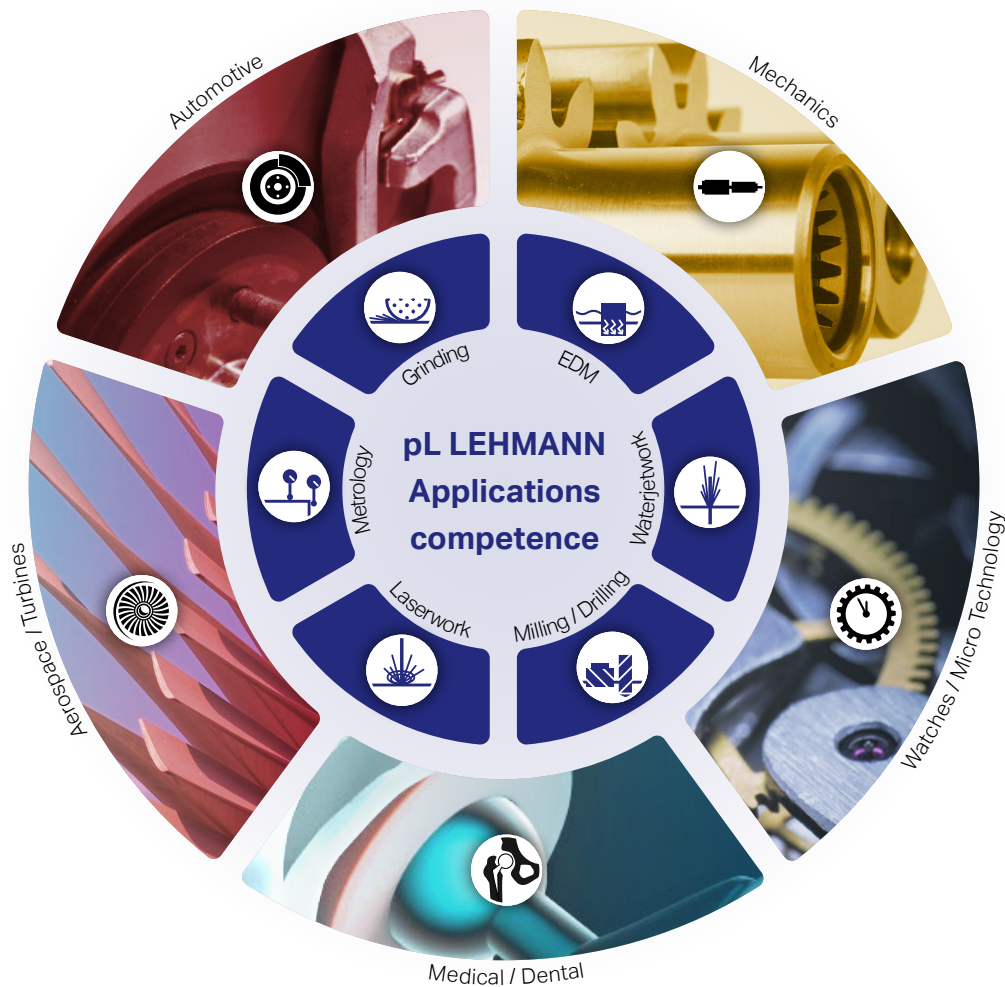
 **HARDINGE**
Bridgeport

10/2021 | EN



... for GX 1300/1600, V and XR series

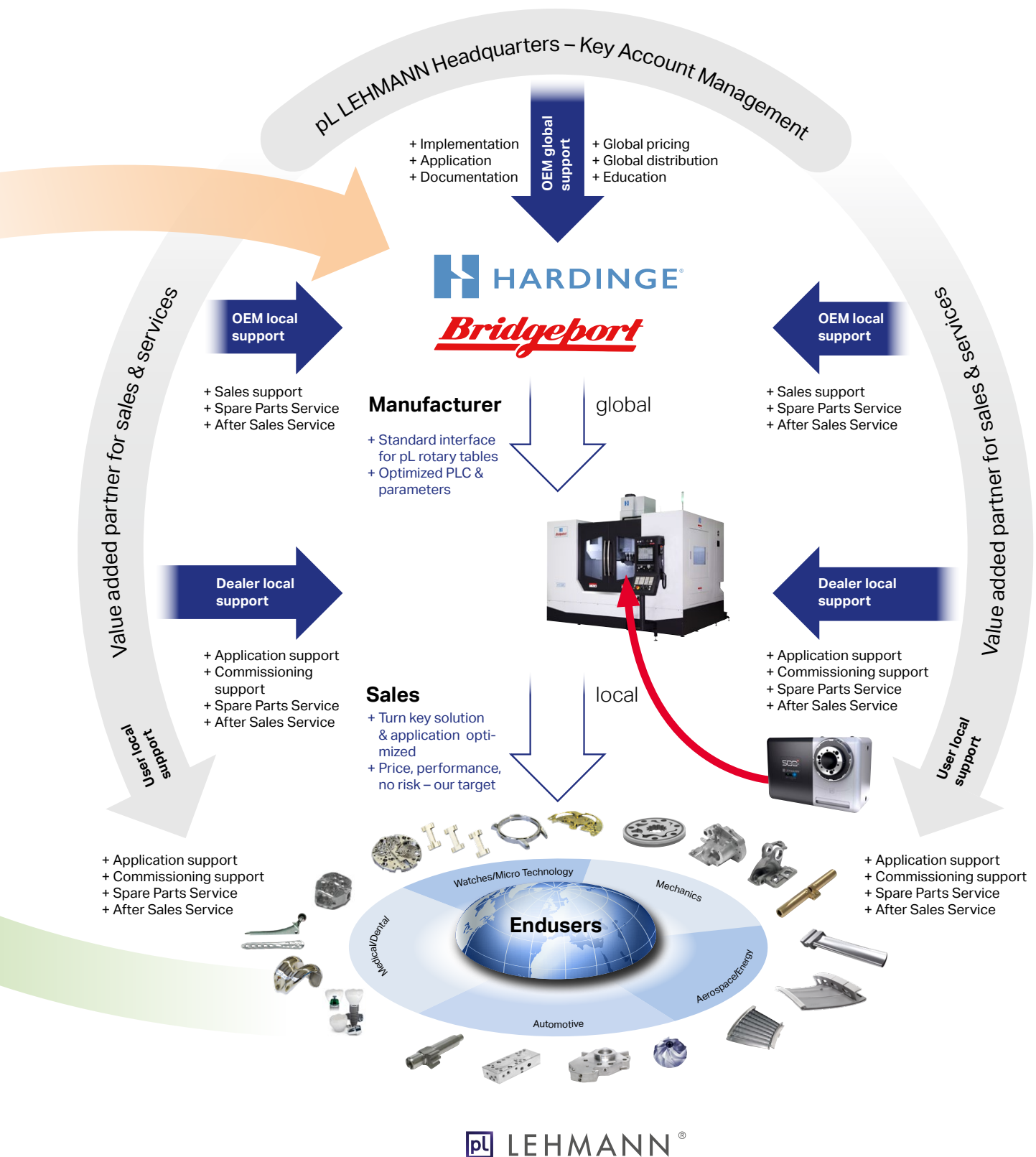
CNC rotary tables for economical manufacturing:
pL LEHMANN has suitable and rational solutions for
nearly every industry



pL rotary tables in use: on over **40** different machine brands
and over **160** different machine models.

pL competence: Integration in **all known** CNC control systems
(Fanuc, Siemens, Heidenhain ...), for new machines as well as
for retrofits

Professional products from professional partners:
HARDINGE and pL LEHMANN provide
first-class service to common customers



Up to **210 rpm**
up to **0.21 sec / 90°**

High speed GD

Extended travel in
Z- and X-direction

More space

High spindle load,
heavy-duty bearing

Heavy duty

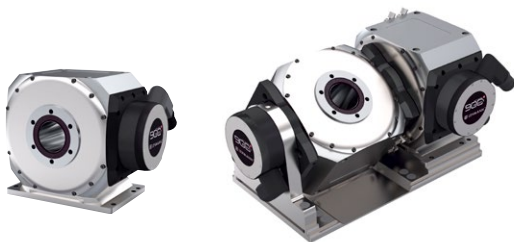
E-Series



EA-50x light only 12 kg



DD Series **NEW**



Request our
special catalog

High speed DD

up to **5'450 rpm**

Adaptability

Multifunctional
spindle HSK

Precision

On the workpiece, as
precise as **2 μ m / 100 mm**

Pneum. clamping
up to 7,000 Nm

High clamp

Large parts
up to $\varnothing$ 500

Big size

PGD backlash-free
long-life gear unit

No backlash

T-Series



**All base plates
made of steel**

with integrated hole pattern for
slot spacing of 100 and 125 mm,
integrated alignment system
lineFIX for lengthwise or cross-
wise clamping.

M-Series



Connectivity

Wireless monitoring,
for operation & service

No adjust

Load change without
parameter adjustment

Less cost

No cooling system,
no hydraulics



V 480



V 480 APC



V 710



V 1000



XR1000



V 1320

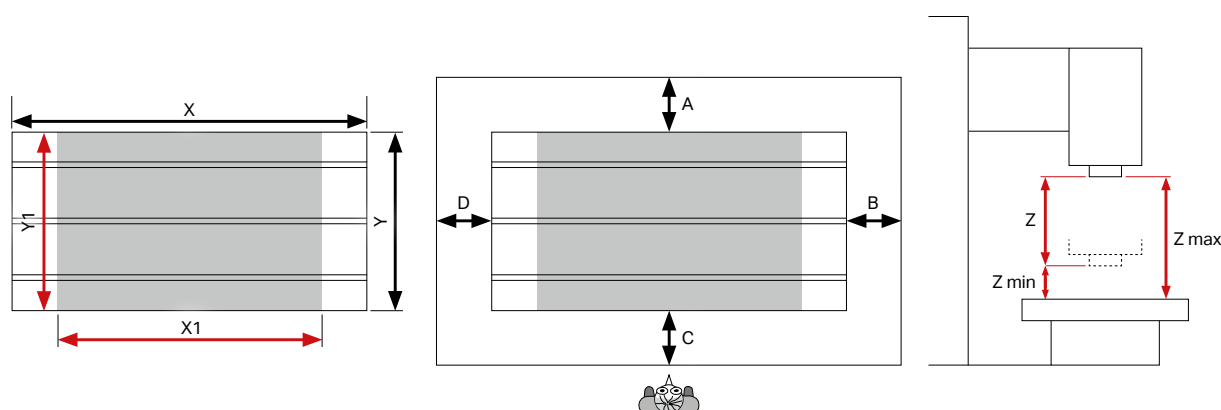


GX 1600

A word from HARDINGE:

«Welcome to the world of Hardinge

We are a global leader in the design, manufacture and distribution of precise, advanced metal-cutting machine tool solutions. We work tirelessly to help make today's manufacturers and job shops more productive and more profitable. As manufacturing demands increase, so do we. Bringing innovation, precision and accuracy to the most demanding applications.»

[illegible]

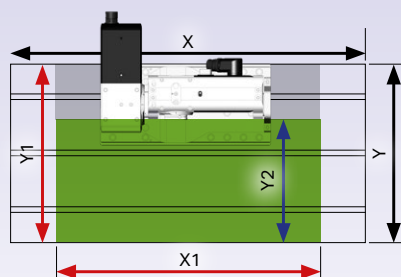
** The recommended rotary tables do not exceed 50 % of the allowed table load.

Table explanation for pp. 8–11

	EA-507 X2	EA-510 X2	EA-520 X2	EA-530 X2
GX 1300 (-40)			1'154	1'125

pl LEHMANN®

X-mounting



Rotary table installation using hole pattern in base plate



TIP1

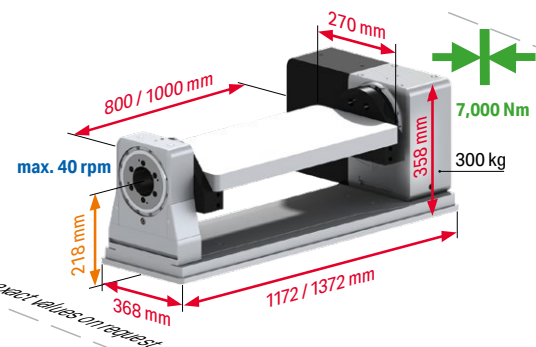
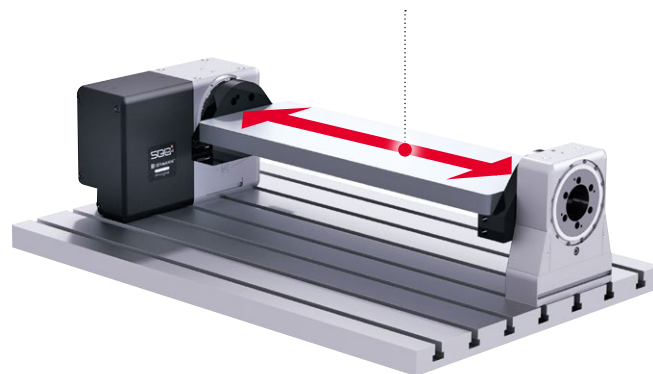


TAP1



TOP1.2

[illegible][illegible]



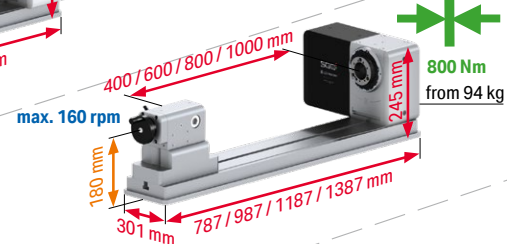
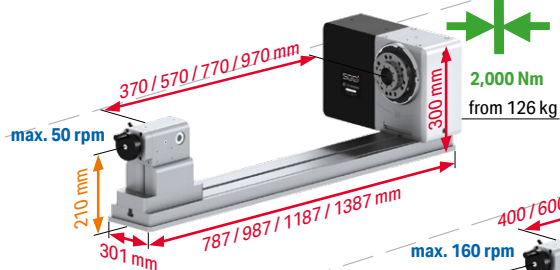
530

520

51x

SIZE

50x

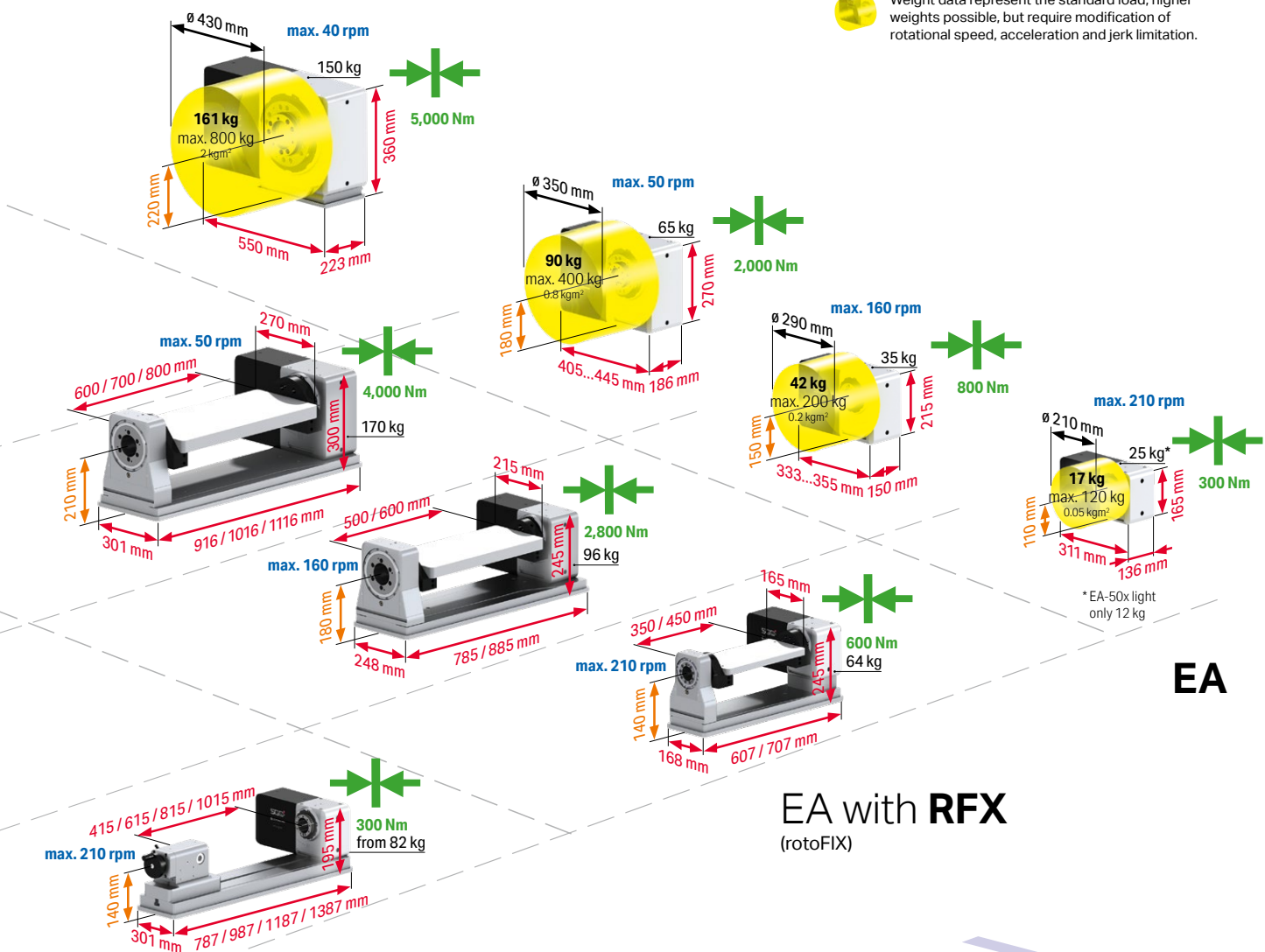


Facts

1. High speed up to **210 rpm**
2. Feed torque up to **850 Nm** (tentative)
3. Steel base plates with hole pattern (suitable for slot spacing of 100 and 125 mm)
4. Cycle time **90°** as fast as **0.21 sec.**



Weight data represent the standard load; higher weights possible, but require modification of rotational speed, acceleration and jerk limitation.

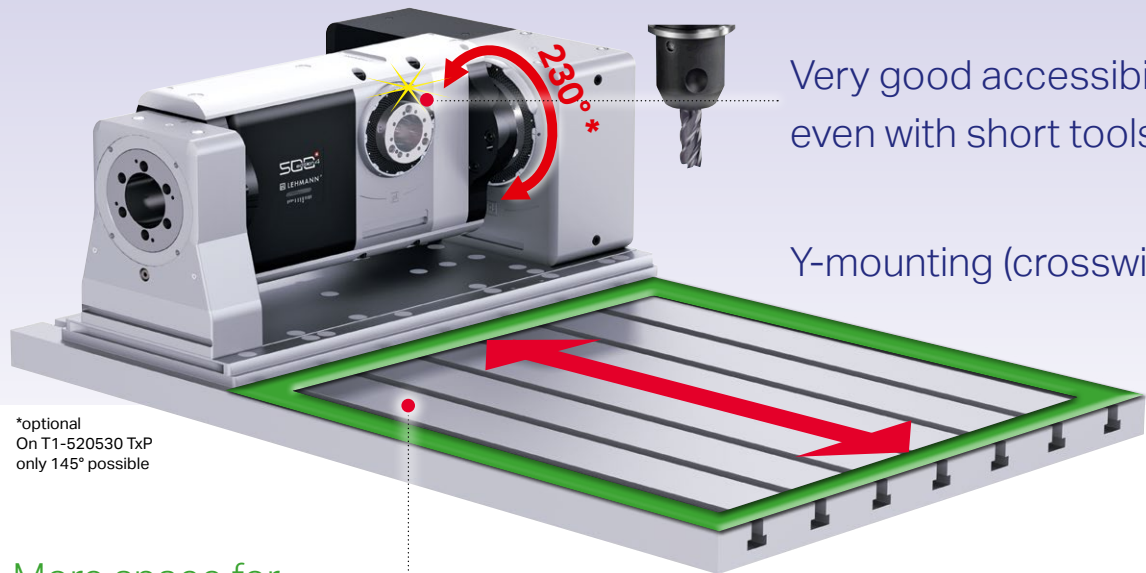


EA

EA with **RFX**
(rotoFIX)

EA with **LFX**
(longFLEX)

50x	507 (standard) or 508 (high speed)
51x	510 (standard) or 511 (high speed)
EA	single-axis, single-spindle CNC rotary table
rotoFIX	modular clamping yoke system
longFLEX	modular shaft clamping system

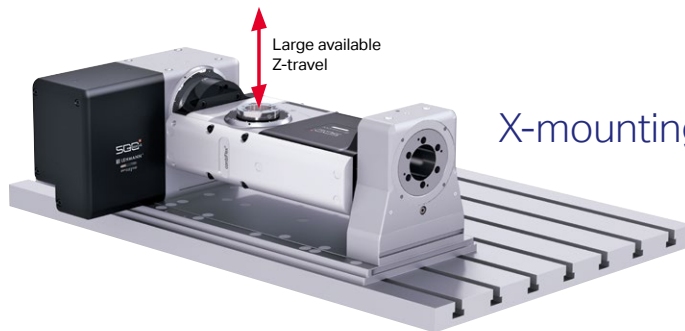


Very good accessibility,
even with short tools

Y-mounting (crosswise)

*optional
On T1-520530 TxP
only 145° possible

More space for
workpiece and fixtures



Large available
Z-travel

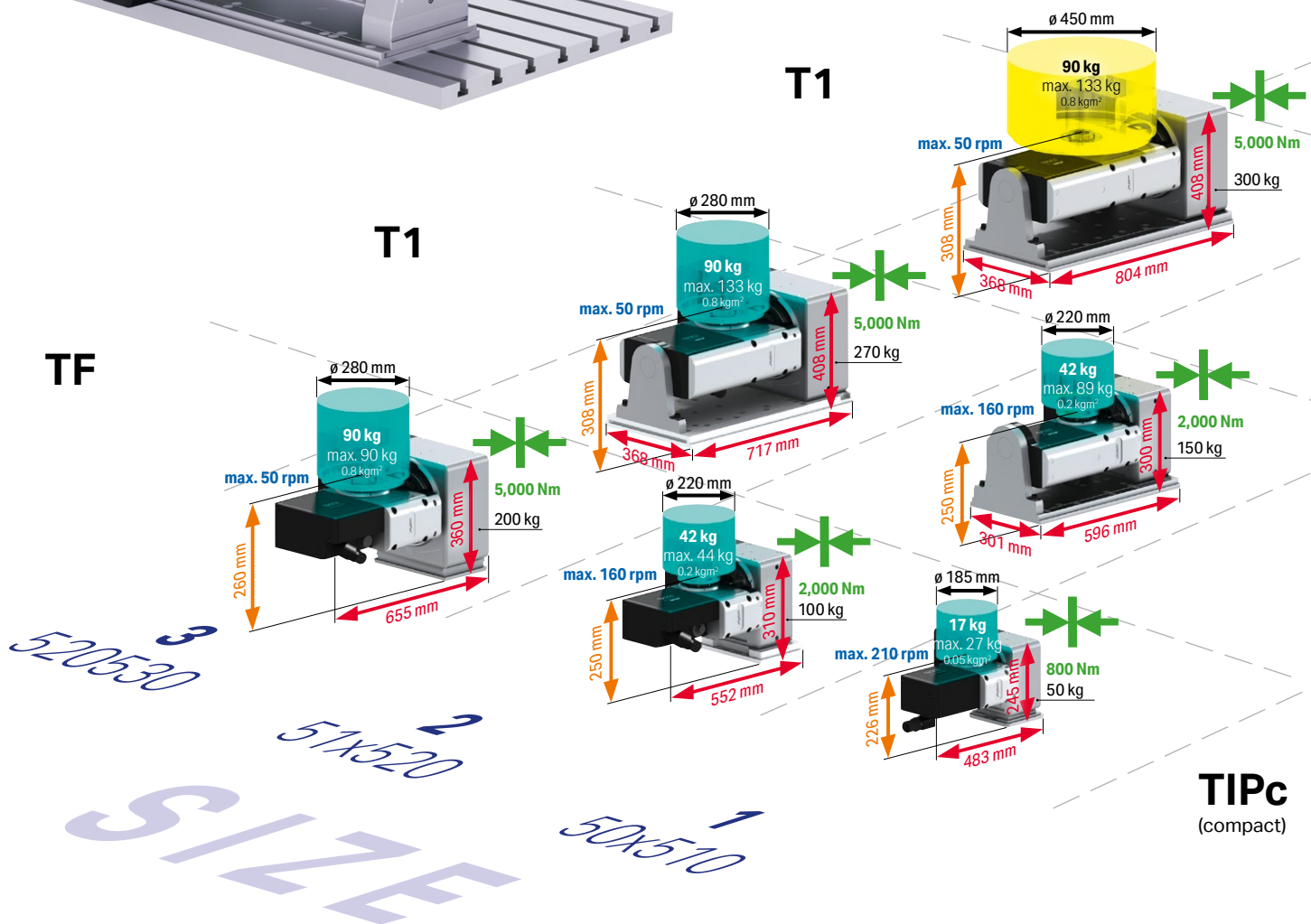
X-mounting (lengthwise)

T1

T1

T1

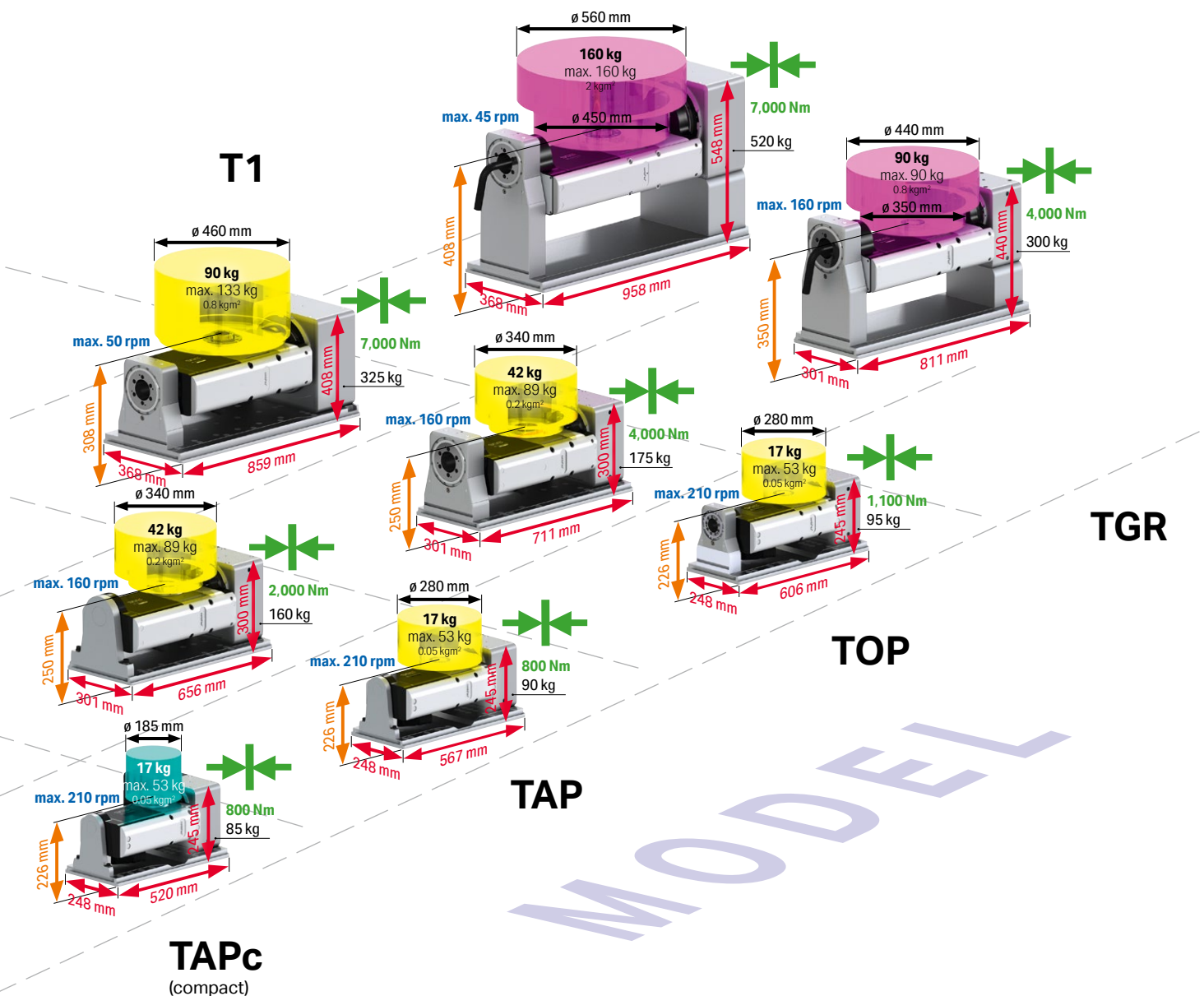
TF



TIPc
(compact)

Facts

1. Up to **150 %** higher clamping torque in tilting axis
2. Fewer variant – more solution
3. Larger workpiece $\varnothing$ possible
4. Spatially optimized arrangement of the dividing axis



Weight data represent the standard load; higher weights possible, but require modification of rotational speed, acceleration and jerk limitation.

50x510	508510 (standard) or 508510 (high speed)
51x520	510520 (standard) or 511520 (high speed)
TIPc	Two-axis rotary table, no counter bearing, compact
TAPc	Two-axis rotary table, with supporting bearing, compact
TAP	Two-axis rotary table, with supporting bearing
TOP	Two-axis rotary table, with clamped counter bearing
TGR	Two-axis rotary table, with clamped counter bearing, specifically for grinding applications



More space for workpiece and fixtures



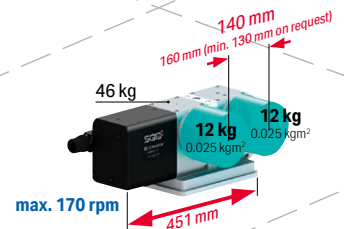
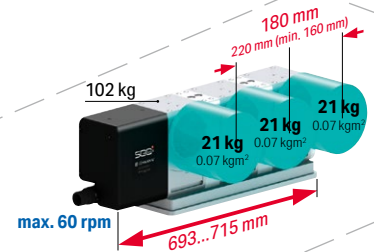
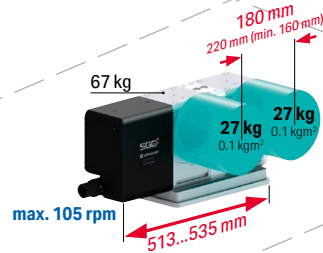
M2

M3

SIZE

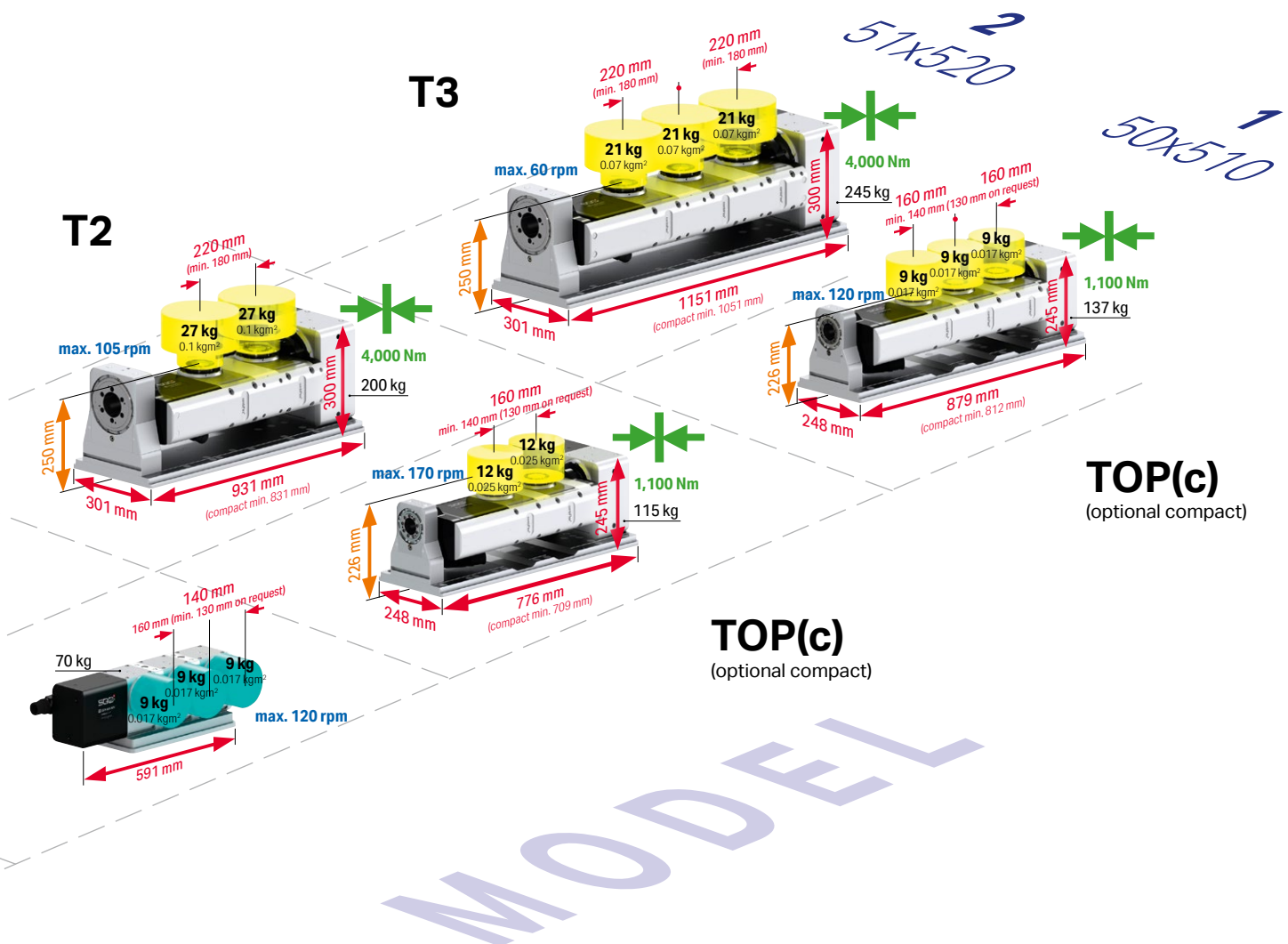
51x

50x



Facts

1. Up to **54 %** higher clamping torque in tilting axis
2. Fewer variant – more solution
3. Spindle distance min. **130 mm**
4. Spatially optimized arrangement of the dividing axis



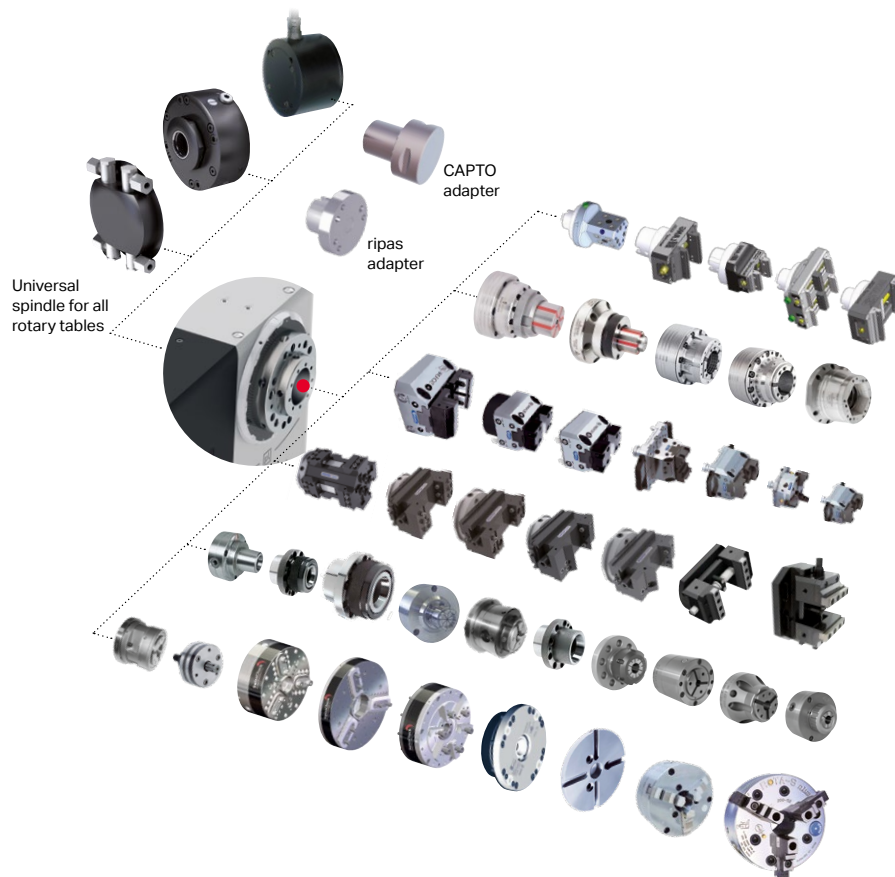
Weight data represent the standard load; higher weights possible, but require modification of rotational speed, acceleration and jerk limitation.

- 50x 507 (standard) or 508 (high speed)
- 51x 510 (standard) or 511 (high speed)
- M2 Single-axis, multi-spindle rotary table, 2-position
- M3 Single-axis, multi-spindle rotary table, 3-position
- T2 Two-axis multi-spindle rotary table, 2-position
- T3 Two-axis multi-spindle rotary table, 3-position

Extremely wide assortment for workpiece clamping.
Standardized interface in front and rear: maximum universality

Spindle accessories in rear

- + Rotary unions **up to 250 bar**
- + Clamping cylinder **23 kN at 120 bar**
- + Angular position measuring systems **as precise as ± 1 arcsec**



Spindle accessories in front



Tailstock and counter bearing



ripas zero point clamping system



EA-507 with ripas auto and ripas adapter

CAPTO clamping



EA-507 with CAPTO retrofit kit

Present in over 20 countries: from sales consultation to the final service



Get an offer

Please send us your request with the following information:

1. Do you need a 4th or 4th/5th axis?
2. On which machine should the rotary table get installed?
(Name and exact type; e.g. DMG MORI 850V)
3. Which controller is on the machine?
(Name and exact type; e.g. Heidenhain TNC 640)
4. What do you want to process on your machine?
 - Workpiece size
 - Weight
 - Material
 - Size of the series (number of pieces/year)
 - Loading and unloading (automatic or manual)
5. Is the machine completely prepared for the 4th or 4th/5th axis
(PLC, software activation, hardware interface)?

Services from A to Z

Pre Sales

- + First class literature
- + Application drawings 2D
- + 3D models
- + Example of applications

Sales & Post Sales

- + Specified offers for each machine
- + Wide range of workpiece clamping systems
- + Standardized interfaces

Commissioning

- + Parameter lists
- + Machine-specific commissioning instructions
- + User manual
- + Partner kit
- + On-site support

After Sales

- + Service points in 25 countries PTSE
- + Spare parts worldwide by eShop
- + In-field support by flying doctors





ROTARY TABLES · PRECISION TECHNOLOGY · SOFTWARE

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- Vietnam



● Headquarters ● direct sales/service partner ● pL SOLUTIONS® partner ● value added reseller & partner

More information (address, telephone number...) at www.lehmann-rotary-tables.com